AFOQT Prep

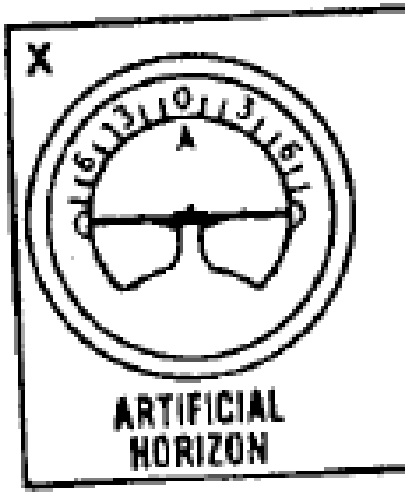
Lesson 3

Instrument Comprehension

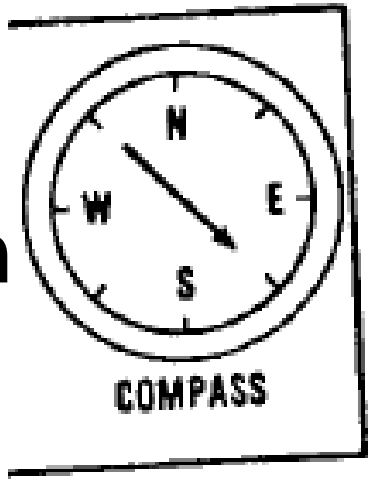
- 6 Minutes – 20 Questions
- Very fast pace
  - 18 seconds per question
  - Need to become comfortable with an artificial horizon and a compass and how they relate
- Ground rules
  - The arrow on the artificial horizon always point to the sky
  - On the answer options, the “camera” is always at the level of the airplane, looking North

Examples

- Straight and level flight



- Airplane pointing southea



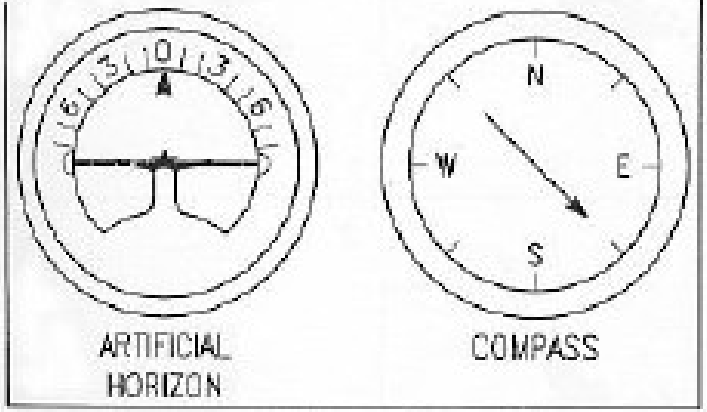
Tips

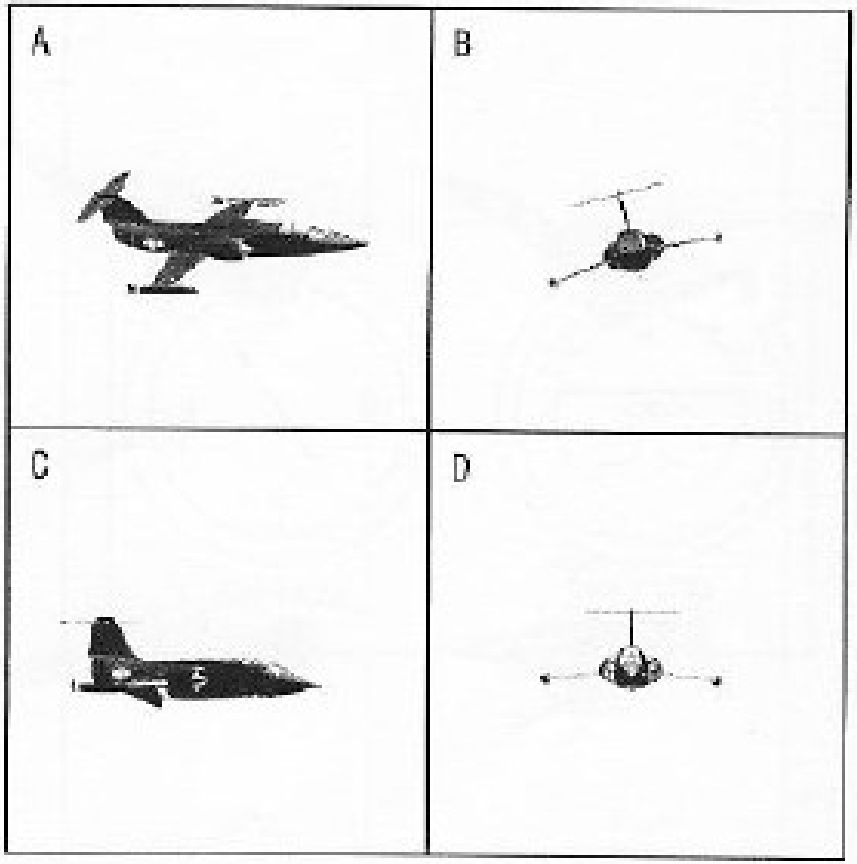
- It’s always the same plane (F-104)
- Pictures are lower quality here than they will be on the AFOQT
- Determine some type of method that works for you to solve these if you don’t like mine
- Remember that speed is KEY!

PREPARE TO TEST

1

X





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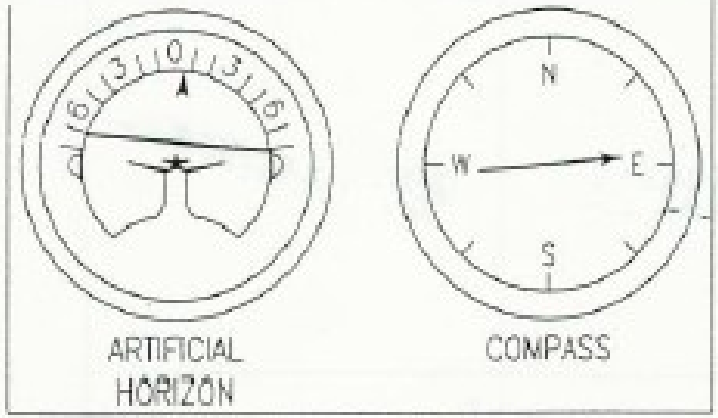

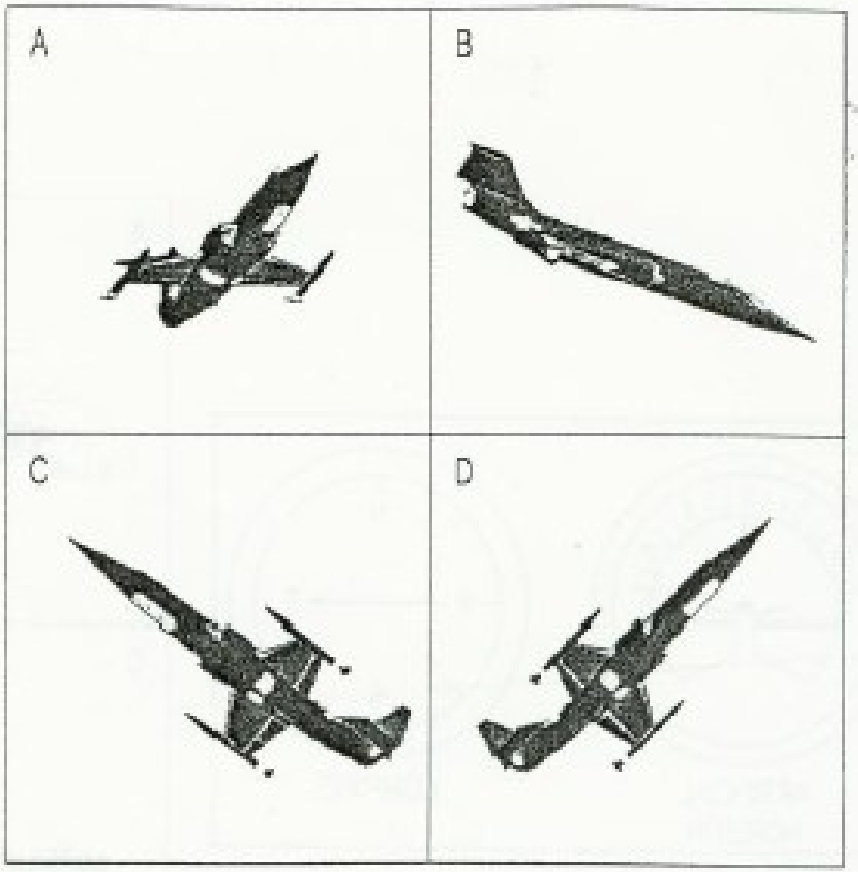

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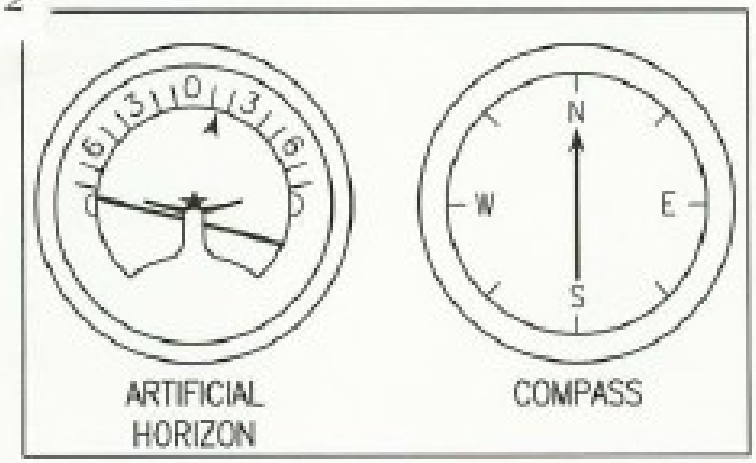

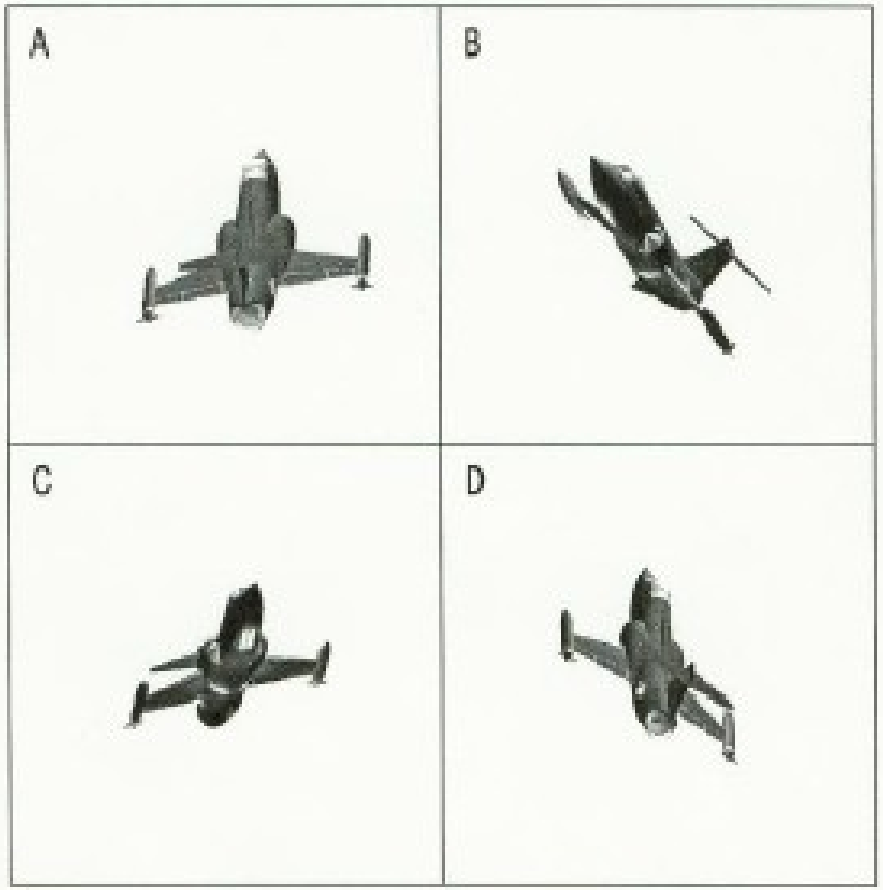

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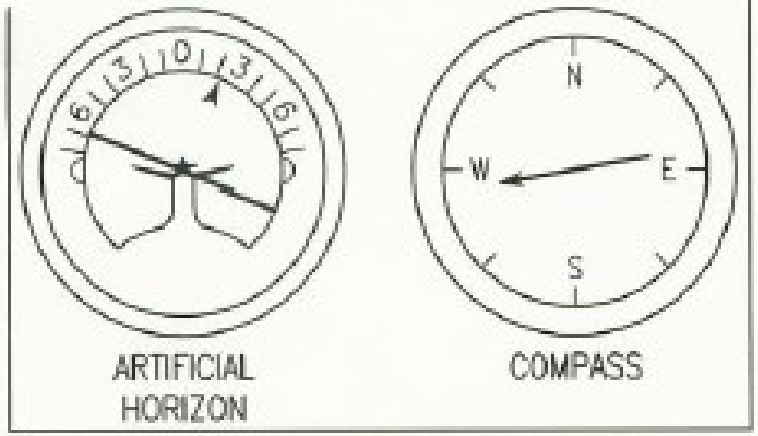

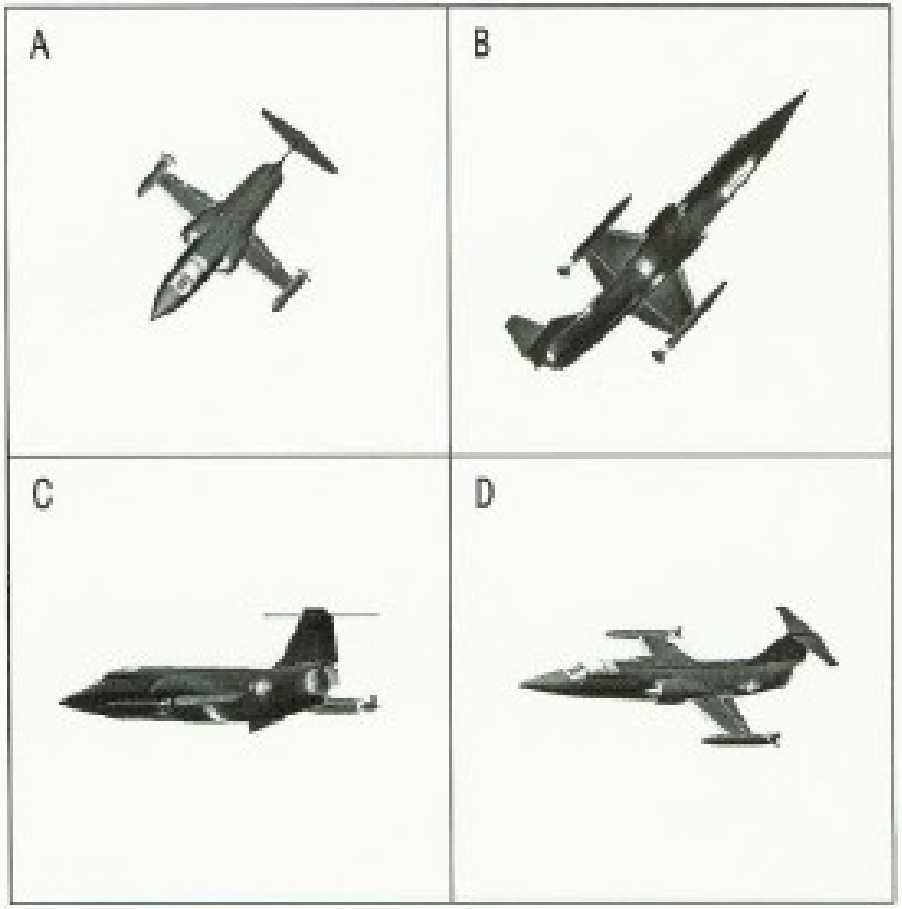

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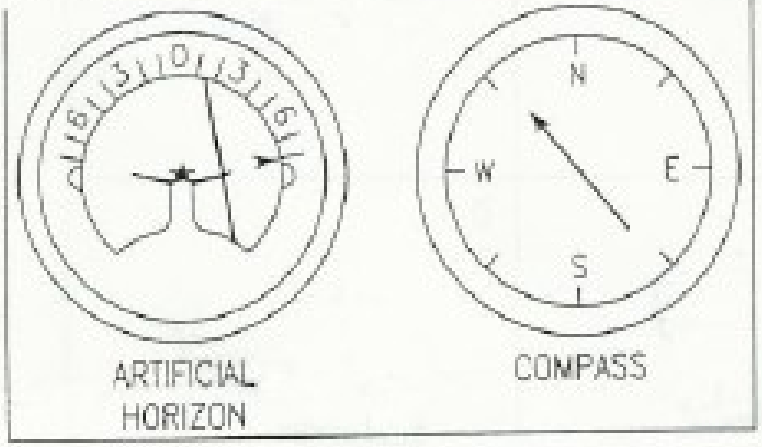

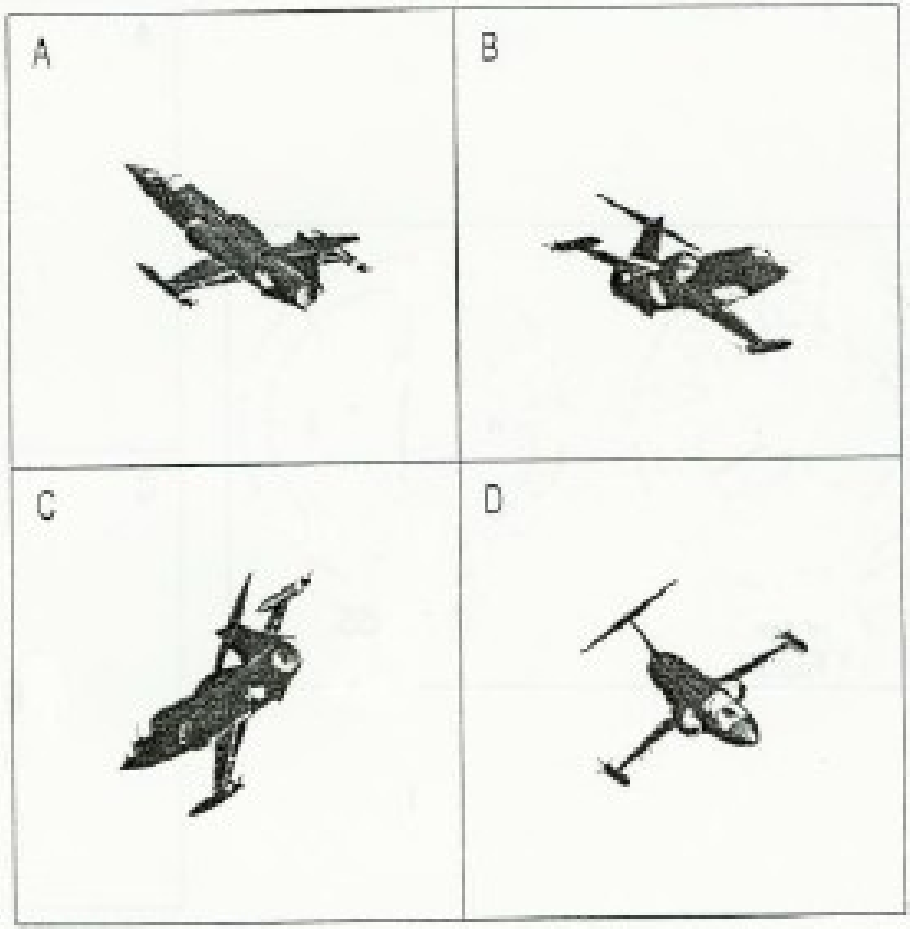

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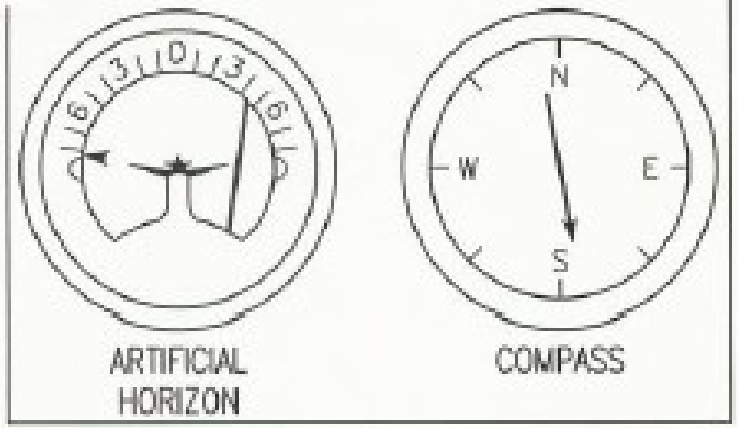

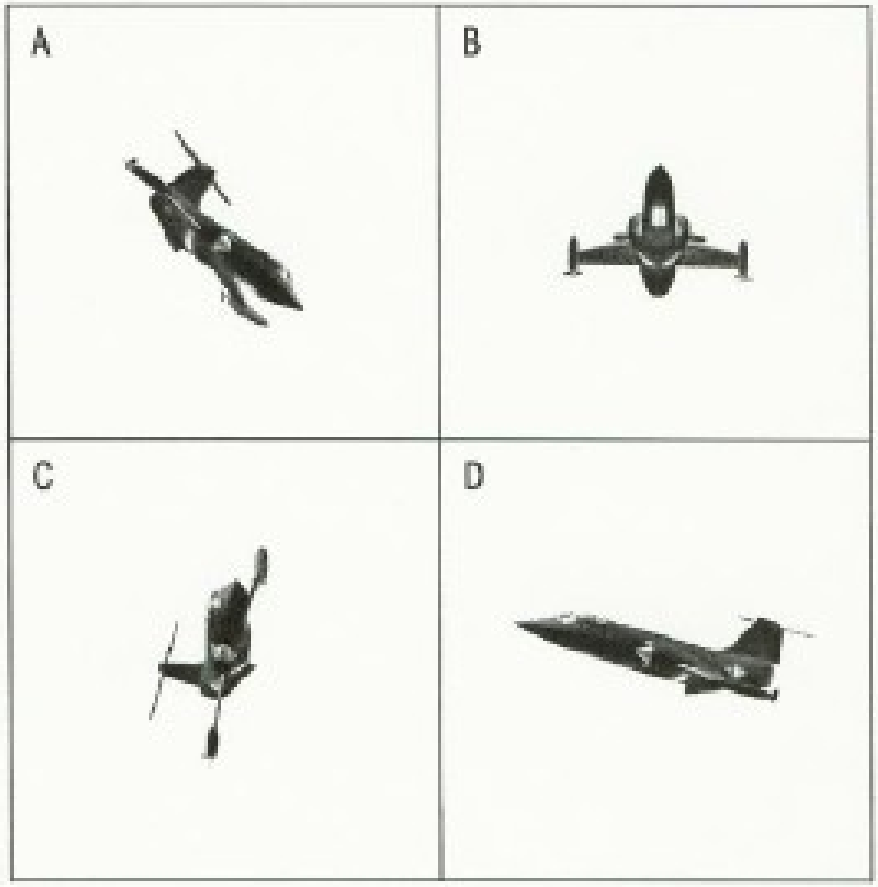

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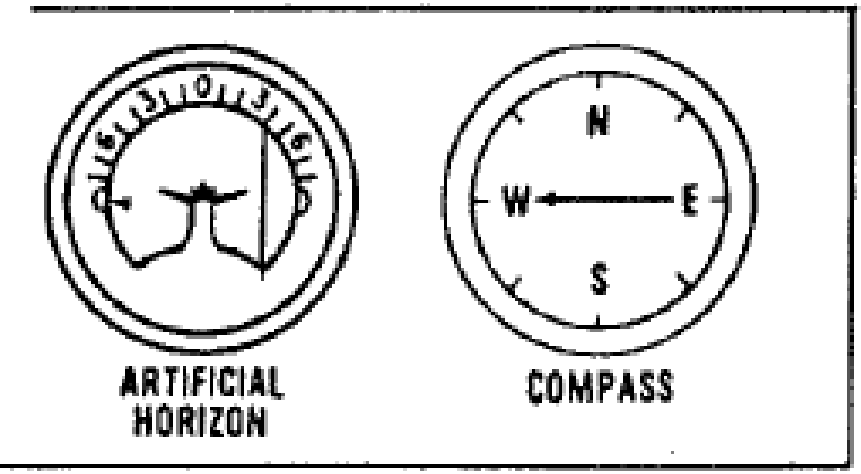

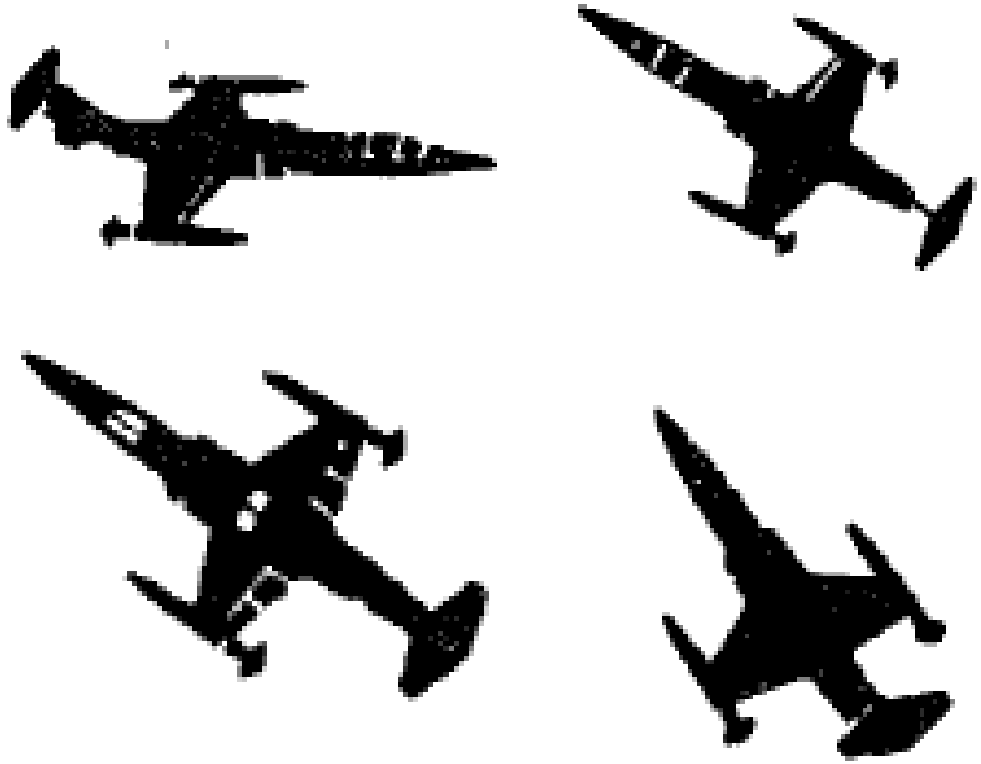

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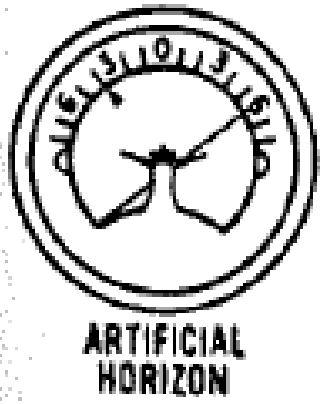

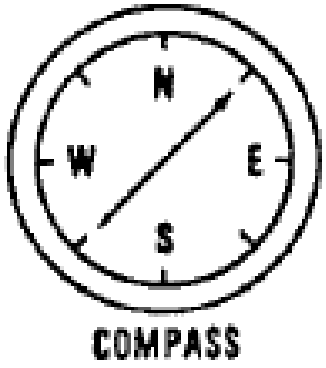

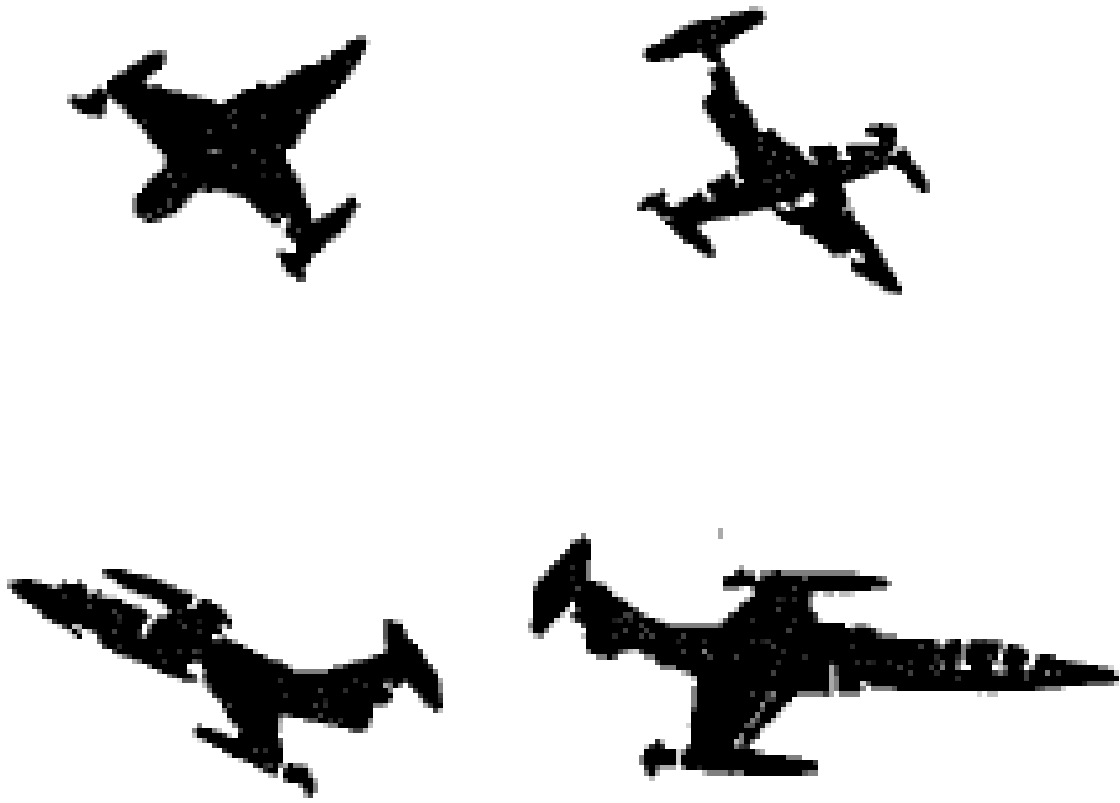

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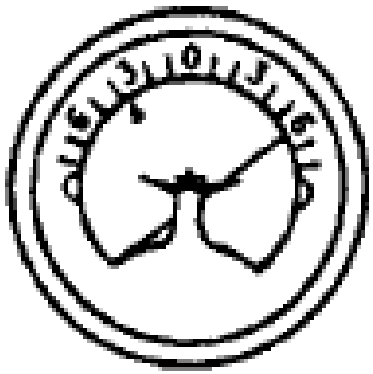

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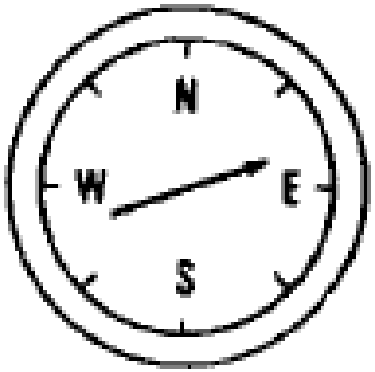

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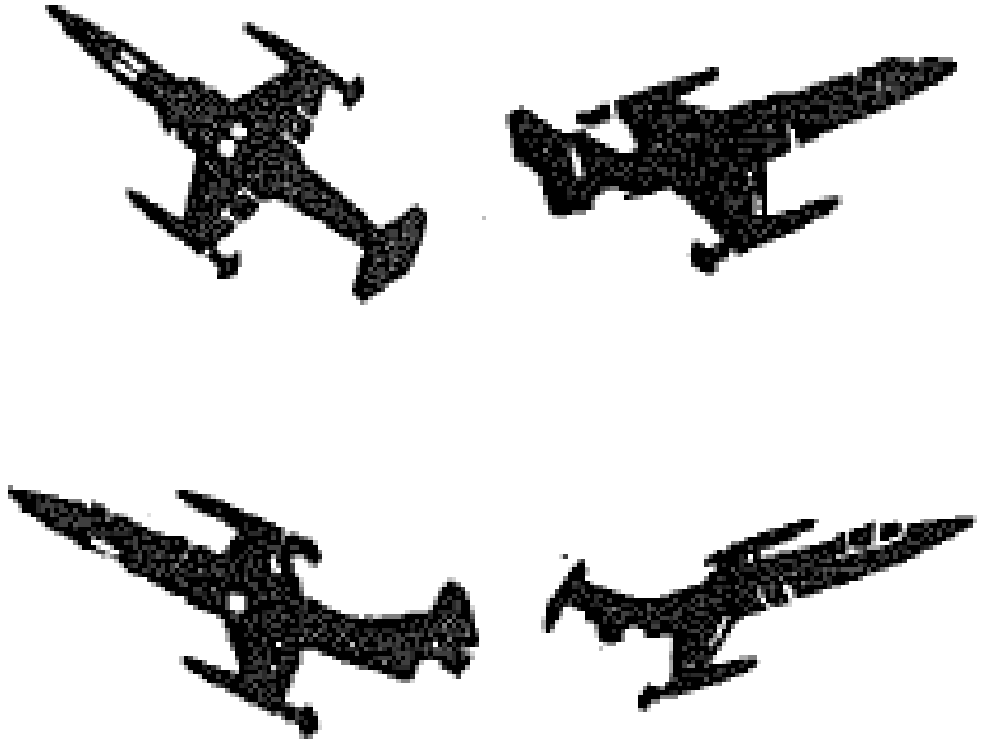

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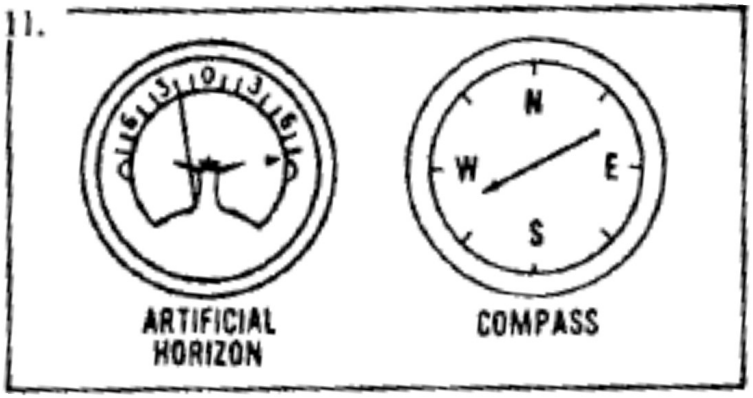

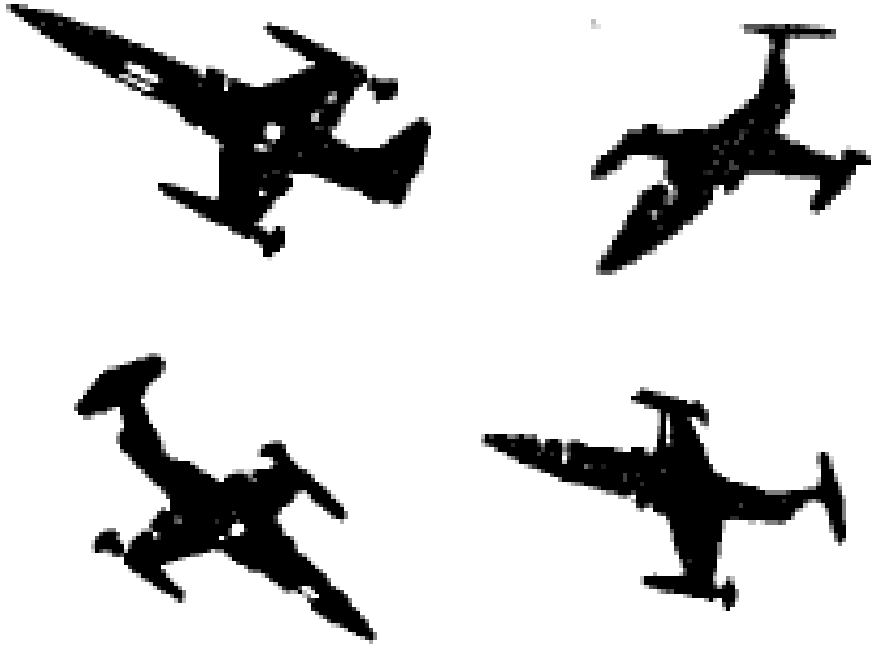

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12.

ARTIFICIAL HORIZON

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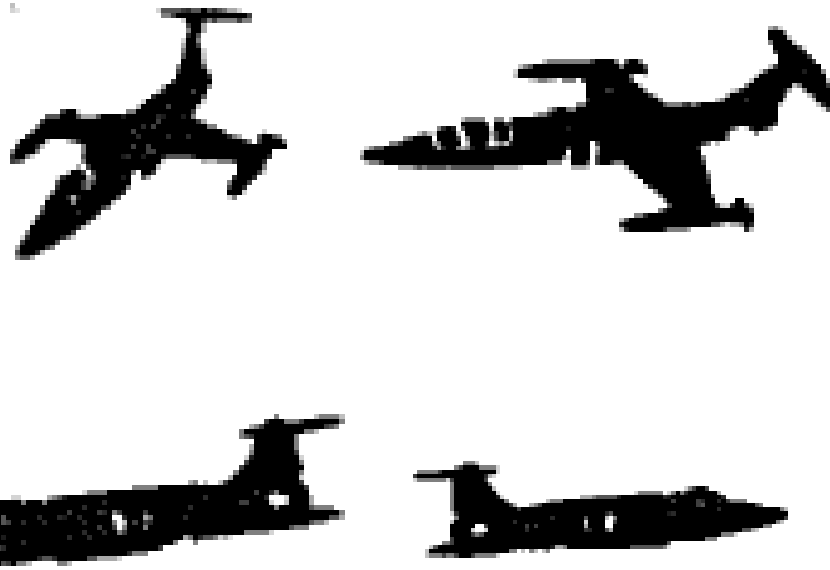

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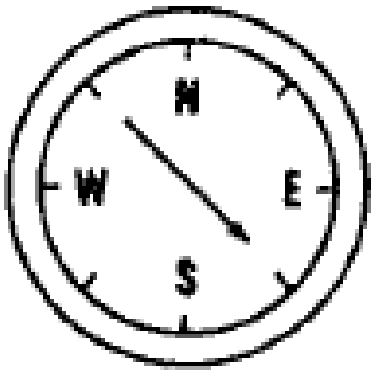

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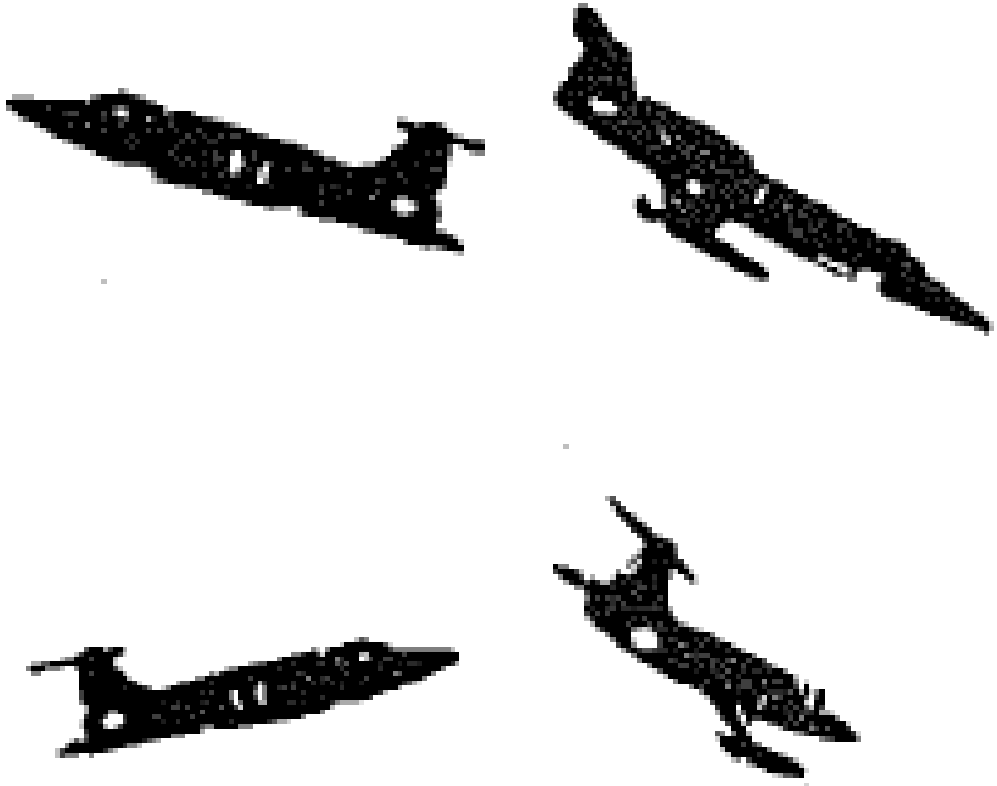

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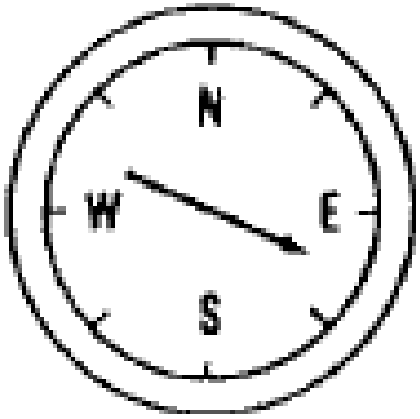

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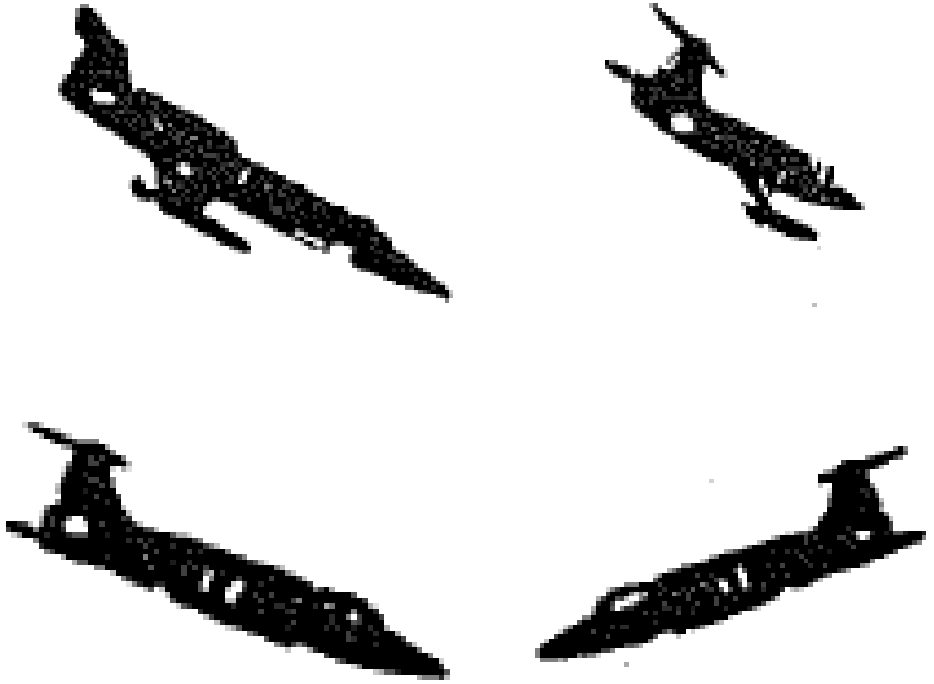

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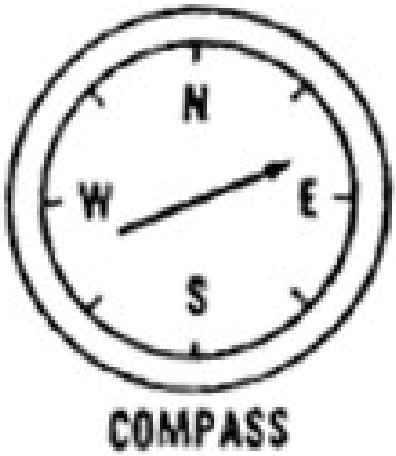

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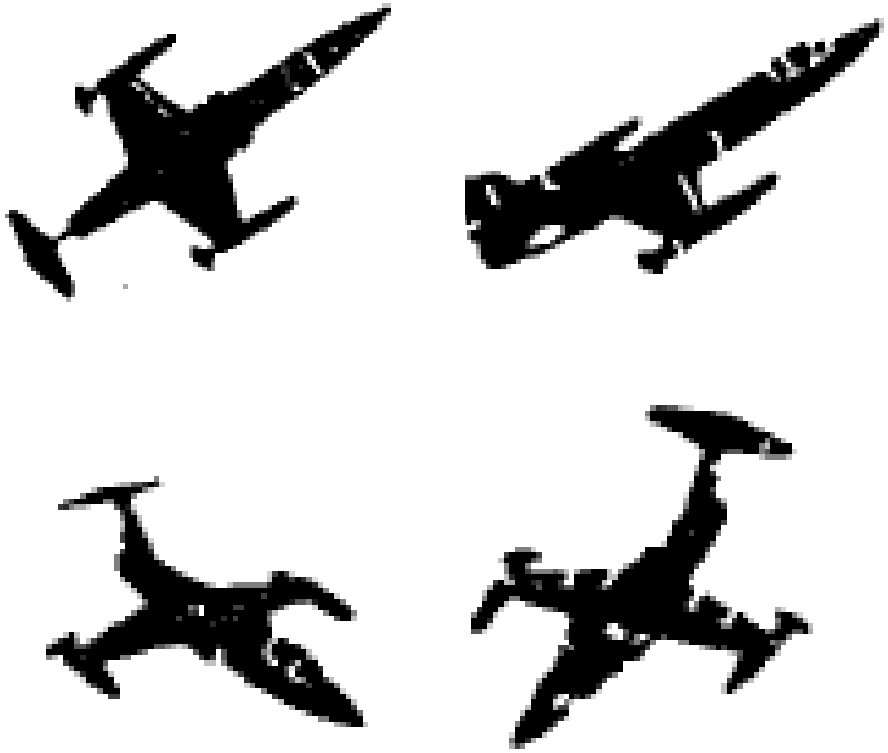

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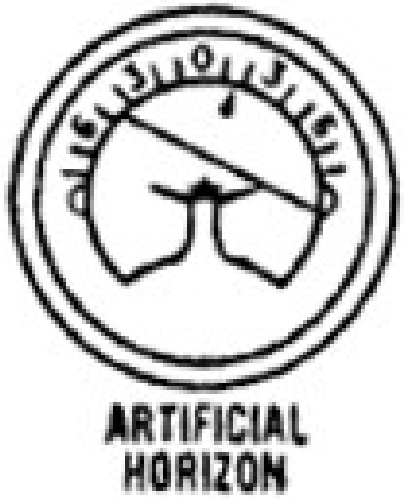

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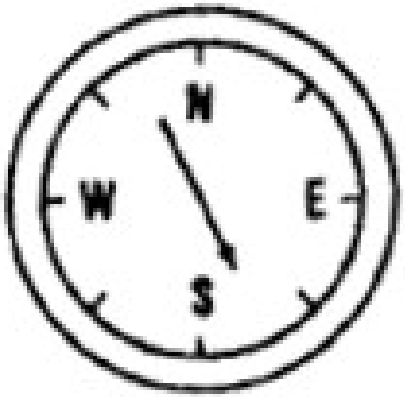

COMPASS

ANSWERS

1. C
2. B
3. A
4. D
5. C
6. C
7. C
8. A
9. B
10D
11D
12C
13A
14B
15D

Table Reading Diagnostic

Measures ability to read a table quickly and accurately

40 Questions – 7 Minutes

Begin!!

COMPLETE

Answers

1.	B
2.	C
3.	C
4.	E
5.	A
6.	C
7.	D
8.	B
9.	A
10.	E
11.	C
12.	B
13.	D
14.	A
15.	E
16.	B
17.	C
18.	A
19.	C
20.	B
21.	D
22.	C
23.	B
24.	D
25.	A
26.	C
27.	B
28.	E
29.	C
30.	B
31.	E
32.	B
33.	D
34.	B
35.	A
36.	D
37.	E
38.	B
39.	C
40.	A

Word Knowledge Diagnostic

25 Questions – 5 Minutes

Prepare to Test

1. ADAMANT:
    A. Make up
    B. Throw away
    C. Go through
    D. Inflexible
    E. petty

2. ALTERCATION:
    A. Defeat
    B. To make fun of
    C. Robbery
    D. Controversy
    E. Irritation

3. ASSENT:
    A. Acquire
    B. Climb
    C. Agreement
    D. Emphasize
    E. Participate

4. ATTRITION:
    A. Give Up
    B. Wear Down
    C. Solve
    D. Expand
    E. Purify

5. AUTHENTIC:
    A. Detailed
    B. Randomly
    C. Genuine
    D. Literary
    E. Practical

6. CONDUCIVE:
    A. Confusing
    B. Cooperative
    C. Precious
    D. Energetic
    E. Respectful

7. COUNTERACT:
    A. Criticize
    B. Erode
    C. Deceit
    D. Retreat
    E. Neutralize

8. DELETERIOUS:
    A. Revoke
    B. Low
    C. Mangle
    D. Frail
    E. Harmful

9. DILATED:
    A. Cleared
    B. Deceased
    C. Graphic
    D. Contradictive
    E. Enlarged

10. FLEXIBLE:
    F. Flammable
    G. Intercede
    H. Pliable
    I. Rigid
    J. Separable

11. FORTNIGHT:
    A. Two days
    B. One night
    C. Two weeks
    D. One month
    E. 7 hours

12. IMPARTIAL:
    A. Complete
    B. Not Intelligent
    C. Fair
    D. Sincere
    E. Watchful

13. INCIDENTAL:
    A. Casual
    B. Unexpected
    C. Infrequent
    D. Necessary
    E. Difficult

14. INDOLENT:
    A. Strong
    B. Aware
    C. Patient
    D. Lazy
    E. Rude

15. NOTORIOUS:
    A. Annoying
    B. Condemned
    C. Large
    D. Official
    E. Well known

16. REBUFF:
    A. Forget
    B. Snub
    C. Recover
    D. Polish
    E. Ignore

17. SUCCINCT:
    A. Concise
    B. Bliss
    C. Helpless
    D. Sweet
    E. Loud

18. SULLEN:
    A. Angry
    B. Austere
    C. Happy
    D. Tortured
    E. Sulky

19. SYMPTOM:
    A. Test
    B. Couch
    C. Edifice
    D. Sign
    E. Denture

20. TEDIOUS:
    A. Brief
    B. Disconnected
    C. Simple
    D. Dull
    E. Surprising

21. TERSE:
    A. Faulty
    B. Unite
    C. Recall
    D. Utility
    E. Pointed

22. TRIVIAL:
    A. Distress
    B. Petty
    C. Teamwork
    D. End
    E. Abnormal

23. VERIFY:
    A. Confirm
    B. Vague
    C. Seed
    D. Question
    E. Explain

24. COROLLARY
    A. Conclusion
    B. Watchful
    C. Trespass
    D. Levitate
    E. Bully

25. SUBSEQUENT
    A. Precede
    B. Lead
    C. Encircle
    D. Following
    E. Unbridled

COMPLETE

Answers

1.	D
2.	D
3.	C
4.	B
5.	C
6.	B
7.	E
8.	E
9.	E
10.	C
11.	C
12.	C
13.	B
14.	D
15.	E
16.	B
17.	A
18.	E
19.	D
20.	D
21.	E
22.	B
23.	A
24.	B
25.	D

Math Diagnostic

- Arithmetic Reasoning
- 29 Minutes – 25 Questions
- More time on this section but don’t get behind

PREPARE TO TEST

1. There are 72 freshman in the company. If freshman make up 1/3 of the entire company, the total number of students in the band is:
   A. 24
   B. 72
   C. 144
   D. 203
   E. 216
2. Tim receives $30 for his birthday and $15 for taking out the trash. If he spends $16 on a CD, how much money does he have left?
   A. $29
   B. $27
   C. $41
   D. $1
   E. $0.45

3. A television is on sale for 20% off. If the sale price is $800, what was the original price?
   A. $160
   B. $640
   C. $960
   D. $1000
   E. $1160
4. Jim earns $9.50 per hour plus 3% tip on all sales made. If his total sales during a 30-hour work week were $500, how much did he earn?
   A. $15
   B. $250
   C. $275
   D. $285
   E. $300

5. The area of one circle is 4 times as large as a smaller circle with a radius of 3 inches. The radius of the larger circle is

A. 12 in
B. 9 in
C. 8 in
D. 6 in
E. 4 in

6. If 400 people can be seated in 8 subway cars, how many people can be seated in 5 subway cars?

A. 200
B. 250
C. 300
D. 350
E. 400

7. An employee earns $8.25 per hour. In 30 hours, what earnings are made?
   A. $240.00
   B. $247.50
   C. $250.00
   D. $255.75
   E. $257.00
8. A bread recipe calls for 3 ¼ cups of flour. If you only have 2 ⅛ cups, how much more flour is needed?
   A. 1 1/8
   B. 1 ¼
   C. 1 3/8
   D. 1 ¾
   E. 2

9. How many servings can be made from 2 dozen eggs if a serving contains 3 eggs?

A. 1
B. 3
C. 6
D. 8
E. 11

10. Two runners finished a race in 80 seconds, another runner finished the race in 72 seconds, and the final runner finished the race in 68 seconds. The average of these times (in seconds) is

A. 73
B. 74
C. 75
D. 76
E. 77

11. You use a $50 bill to buy a magazine for $3.95. What change do you get back?

A. $46.05
B. $46.95
C. $47.05
D. $47.95
E. $48.05

12. Next to a post, a boy 3 ½ feet tall casts a 6-foot shadow. The post casts a 24-foot shadow. How tall is the post?

A. 14 feet
B. 18 feet
C. 28 feet
D. 41 feet
E. 43 feet

13. Devin earns $8.40 an hour plus an overtime rate equal to 1 ½ times her regular pay for each hour worked beyond 40 hours. what are her total earnings for a 45-hour work week?
    A. $336
    B. $370
    C. $399
    D. $567
    E. $599
14. A shirt first priced at $40 is on sale for $30. What percent has the sweater been discounted?
    A. 25%
    B. 33%
    C. 70%
    D. 75%
    E. 80%

15. A box has a length of 3 feet, a height of 2 ½ feet, and a depth of 2 feet. If the length and depth are doubled, by what percent does the volume of the box change?
    A. 200%
    B. 300%
    C. 400%
    D. 600%
    E. 800%
16. Mr. Bartlett earns a weekly salary of $300 plus 10% commission on all sales. If he sold $8,350 last week, what were his total earnings?
    A. $835
    B. $865
    C. $1135
    D. $1835
    E. $1925

17. Tiles cost $2.89 per square foot. What is the cost to tile a kitchen whose dimensions are 4 yards by 5 yards?
    A. $57.80
    B. $173.40
    C. $289.00
    D. $520.20
    E. $640.40
18. One-eighth of a store's books are sold on a Friday. If ¼ of the remaining books are sold the next day, what fractional part of the magazines remains at the end of the second day?
    A. 1/64
    B. 1/32
    C. 1/8
    D. 7/32
    E. 21/32

19. Joanne deposited $300 into a savings account earning 5 ¼% annually. What is her balance after one year?
    A. $15.75
    B. $315
    C. $315.25
    D. $315.75
    E. $375.15
20. The length of a rectangle is 3 times its width. If the perimeter of the rectangle is 48, what is its area?
    A. 108
    B. 96
    C. 54
    D. 48
    E. 32

ANSWERS

1. E
2. A
3. D
4. E
5. D
6. B
7. B
8. A
9. D
10C
11A
12A
13C
14A
15B
16C
17D
18E
19D
20C

Any Questions?